



Risk Management and Acquisition Success

Nov 01

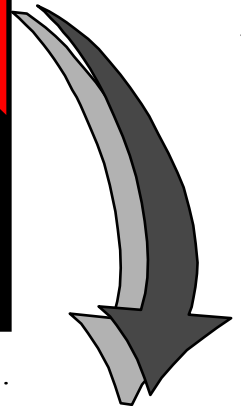
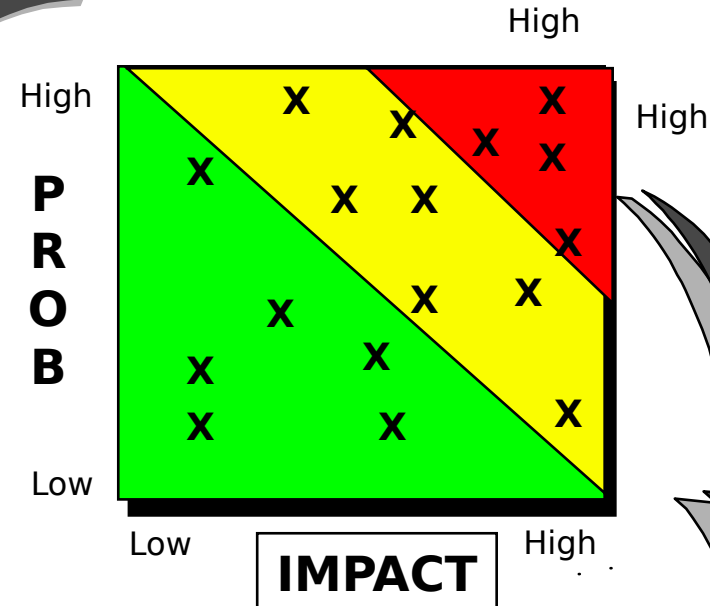
Risk Driven Acquisition Strategy



Risk Tables				
Requirement	Risk	Impact	Prob	Rating
Technical Risks				

Schedule Risks				

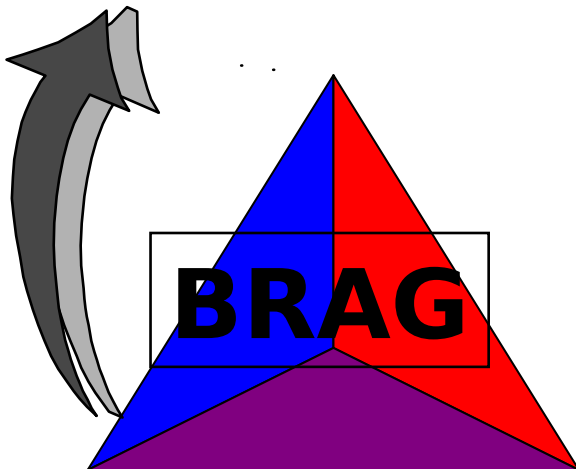
Cost Risks				



Acquisition Strategy

- RFP Content (SDS)
- Evaluation Criteria (Section M)
- Proposal Preparation (Section L)

- Incentives (Contract type)
- Post Award Management



What is Risk Management?

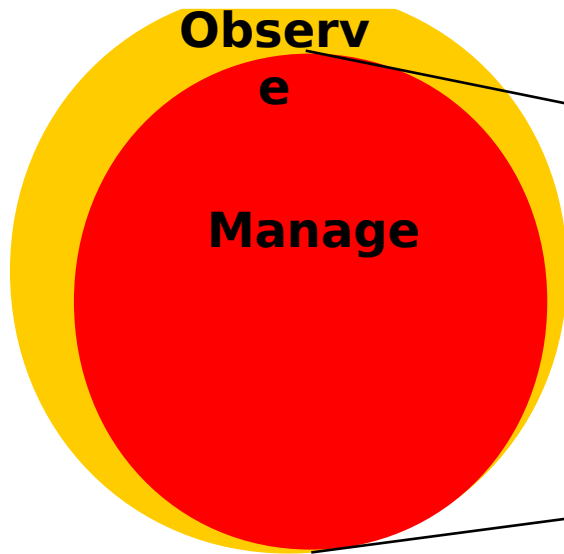
- Organized method of identifying and measuring risk and developing, selecting, and managing options for handling these risks (*OMB Circular A-11*)
- Act or practice of controlling risk using a process to include:
 - Identifying and tracking risk areas
 - Developing risk mitigation plans as part of risk handling
 - Monitoring risks and performing risk assessments to determine how risks have changed.
- Method of managing that concentrates on identifying and controlling the areas or events that have a potential of causing unwanted change

It is no more and no less than informed program management!!



From Oversight to Insight

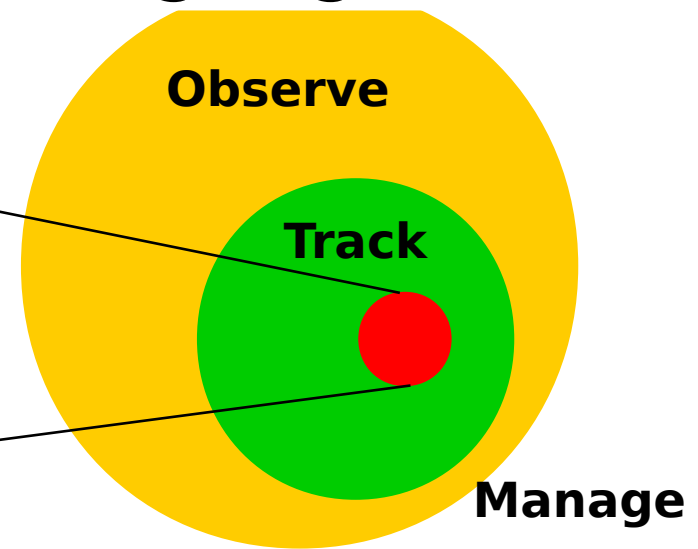
Where we've
been:



Available Resource
Reduction

Risk Avoidance

Where we're
going:



Risk
Management



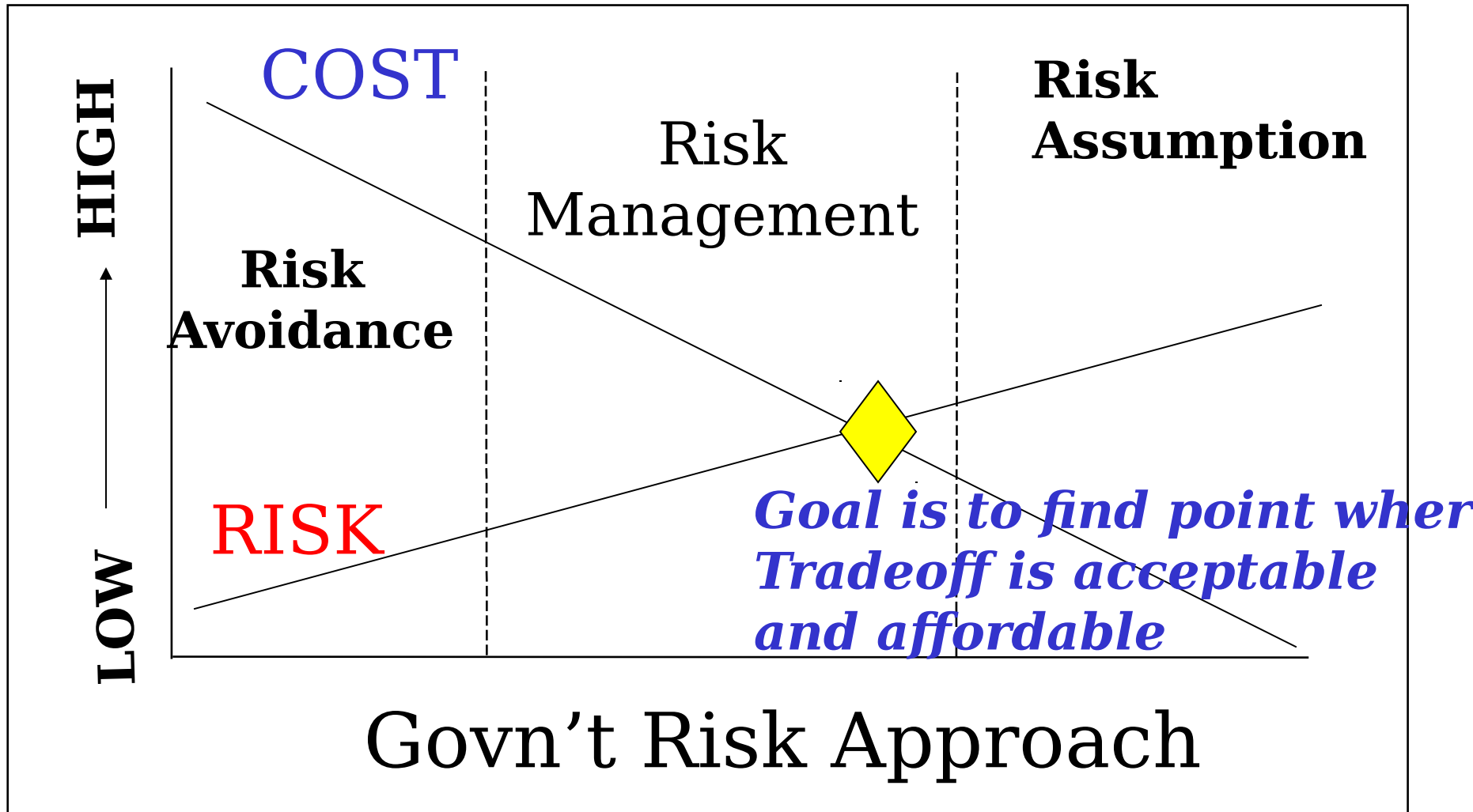
What Does It Take?

Successful BRAGS

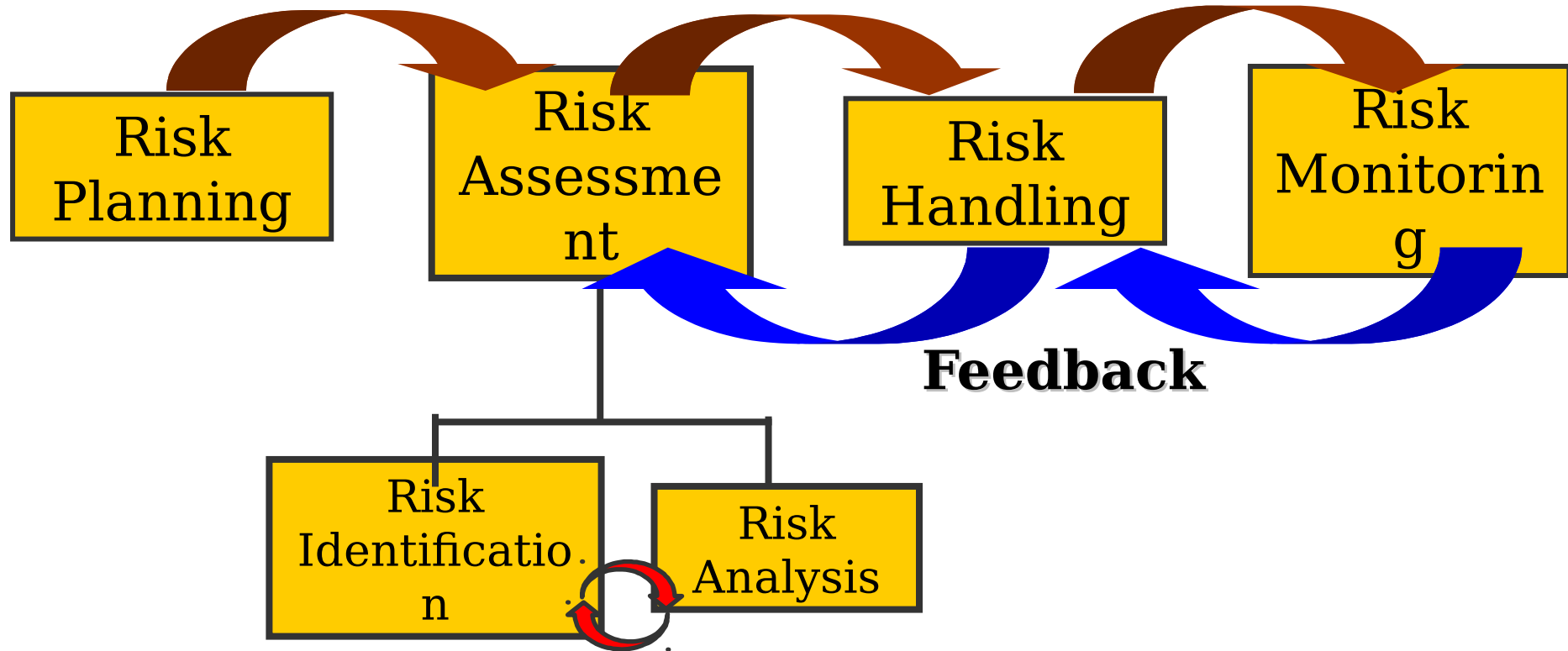
- All stakeholders share a common vision
- Open discussion - no secrets
- Qualified, multi-disciplined, empowered team members
- Consistent, success-oriented, proactive participation
- Continuous communication
- Reasoned disagreement
- Issues raised and resolved early



Risk vs Cost to Government



Risk Management Process Model

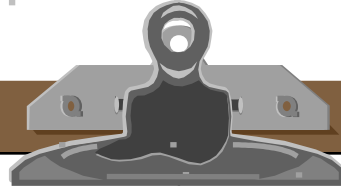


Risk Assessment

- The process of evaluating risks for their potential to impact performance, cost and schedule objectives
- Requires focused integrated team effort to provide an in-depth understanding of the sources and degree of risk.
- Process includes assessing each risk's probability of occurrence and the consequence if it does occur.
- Risk assessment is the problem definition stage of risk management that identifies, analyzes, and quantifies program events in terms of probability and consequences..... it is probably the most difficult and time consuming part of the management process

(DSMC Risk Management Guide for DoD Acquisition P. 2.6.2)

Risk Areas



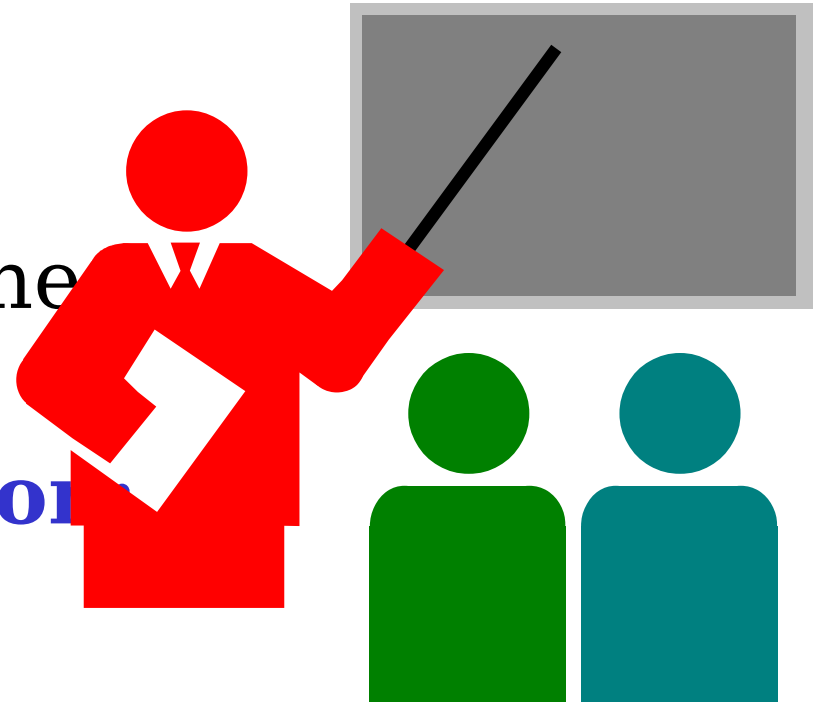
- ☒ Performance Requirements
- ☒ Mission Changes
- ☒ Technology
- ☒ Logistics
- ☒ Facilities
- ☒ Capability of Marketplace
- ☒ Funding
- ☒ Management
- ☒ Contract Transition
- ☒ Environmental issues
- ☒ Strikes
- ☒ Government Supplied Property
(GFP, GFE, GFI)
 - ☒ etc...

Tools to Use

- There are a variety of approaches that can be used to identify risks - the key is to just do it
 - Cause and effect
 - “What if” analysis
 - Scenario Process
 - Listing and prioritizing
 - Logic Diagram
 - Change Analysis

Probability/Consequence Screening Risk Identification and Analysis

- Identify the risks associated with the requirement
- **Rank each risk on**
 - **Probability**
 - **Impact/Consequence**



Probability Ratings

Probability of risk becoming reality:

- Not Likely - **(0 - 10%)** Know this most likely will not occur
- Low Likelihood - **(11 - 40%)** Believe this will not occur
- Likely - **(41 - 60%)** Toss-of-coin
- Highly Likely - **(61 - 90%)** Believe this will occur
- Near Certainty - **(91 - 100%)** Know this most likely will occur

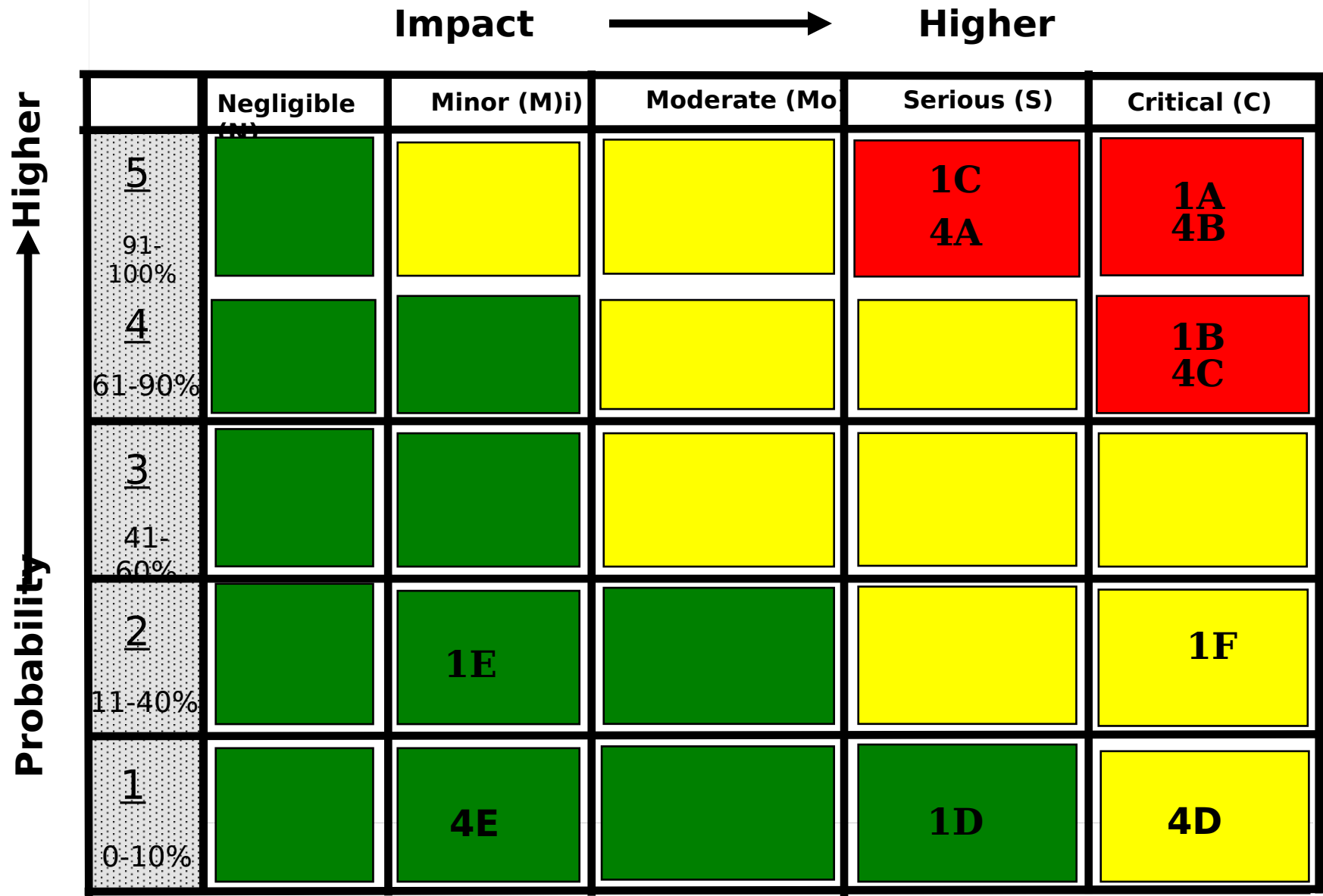
Consequence Ratings

Cost/schedule/performance impact of risk?

- **Negligible: An event which, if it occurred, would have almost no effect on the program**
- **Minor: An event which, if it occurred, would cause only a small increase in program cost and/or schedule. Requirements would still be achieved**
- **Moderate: An event which, if it occurred, would cause moderate cost/schedule increases, but the requirements would still be achieved**
- **Serious: An event which, if it occurred, would cause serious cost/schedule increases. Secondary requirements may not be achieved**
- **Critical: An event which, if it occurred, would cause program failure**

Probability/Consequence Screening Example

Establish Scatter Diagram Zones



Risk Handling

- Now that you have assessed the risks how do you deal them?
 - Avoid
 - Control
 - Transfer
 - Assume



Probability/Consequence Screening to RFP

- Determine requirements and group
 - Technical, cost, schedule, etc.
- Identify risks to meeting each requirement
- Assign probability and consequence ratings to each risk
- Plot on scatter diagram
- Establish scatter diagram zones
- Apply the results
 - Acquisition Strategy, RFP Development, etc.

Example Risk Handling Plan

RISK	APPROACH
C8A – Contractor has ineffective Program Management, requiring excessive Gov’t Oversight	<ul style="list-style-type: none"> • RFP Discriminator: Evaluate past performance in effective management. • Incentivize through Award Fee or Incentive Fee in contract structure
P9A – Contractor does not perform adequate testing due to financial constraints P10A – Contractor does not provide updates to the Performance Spec due to financial constraints.	<ul style="list-style-type: none"> • Program can shift resources to complete testing or Spec as tradeoff in requirement • RFP Discriminator: Scrutinize cost mgt & cost realism in proposal and cost mgt in past performance.
P10B – Contractor does not update Performance Spec due to poor contract performance / lack of technical ability	<ul style="list-style-type: none"> • RFP Discriminator: Past Performance in . • RFP Discriminator: Technical Experience – risk of approach in proposed sample tasks

Risk Handling Plans

- Risk handling techniques in acq. strategy:
 - Competition: **maintaining competition as long as possible during program phases can lower risk (e.g., ktr that can better mitigate risk rises to top, ktr assumes more risk)**
 - Commerciality: **use of commercial products/services drives down schedule, cost, and performance risks**
 - Contract incentives: **in cost-plus contracts, ktr realizes higher fee/rate of return by decreasing costs or by meeting high risk performance targets; second sourcing; sharing cost savings w/ prime and subs**

Risk Handling Plans continued

- Risk handling techniques in acq. strategy:
 - Market research: **vital tool to identify risk reducing opportunities (e.g., lower risk design approaches, commercial opportunities, competition)**
 - User/ktr involvement: **greater involvement drives risk down (e.g., have users/ktrs involved in requirements definition, cost/performance trade-offs, risk mgmt, get feedback through RFIs, draft RFPs, and Industry Days, share data/lessons learned with contractors)**

Risk Handling Plans Continued

- Risk handling techniques in acq. strategy:
 - Contract Types:
 - Cost Reimbursable (requirements and costs uncertain): Gov. assumes risk - benefiting, if actual cost lower than expected; losing, if work not completed within expected cost
 - Fixed Fee: high technology risk; performance/cost targets difficult to define
 - Award Fee: judgmental standards can be fairly applied; suitable for large scale programs
 - Incentive Fee: objective performance/cost targets can be established
 - Firm Fixed Price (requirements well defined; costs accurately estimated): Ktr assumes risks

Discriminators

- Steps to development of effective discriminators:
 - Develop, through risk analysis, criteria that addresses high program risks:
 - Must be important to the program
 - Used as tool to reduce risk
 - Develop, through market research, min. capability or performance value to apply to criteria:
 - Know capabilities of potential offerors
 - Set min. too high, everyone fails; too low, everyone passes
 - Determine how min. value can be exceeded in a beneficial way, and how it can be captured by the Gov.
- Performance-Price Tradeoff (PPT) Discriminators:
 - Developed same way as for Full Trade Off (FTO)
 - No exceedance allowed; pass/fail only

Risk Monitoring

- Systematically tracks and evaluates effectiveness of risk handling actions
 - Measures against established metrics
 - Provides basis for developing additional handling options and identifying new risks
- Establishes a management indicator system for the program that the PM uses to evaluate program status

Risk Monitoring

- Risk Monitoring:
 - Cost and schedule:
 - Earned Value Management - periodic comparisons of actual work accomplished with work planned and budgeted
 - Cost status reports - used to monitor cost-related risks
 - Schedule analysis - used to monitor schedule-related risks

Risk Monitoring Techniques

- Develop Quality Assurance Surveillance Plan based on risks associated with requirement in light of SOW requirements and Service Delivery Summary